SEQUENCE LISTING

<110> Sloning Biotechnology GmbH

<120> Method for the manufacture of nucleic acid molecules

<130> S 10010 PCT

<140> EP 02023385.4

<141> 2002-10-18

<160> 61

<170> PatentIn version 3.1

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<210> 6

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gcaatgnn 8

<210> 20

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<210> 21

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<210> 23

<211> 16

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<222> (7)..(16)

<223> any nucleotide

<400> 23
gaggagnnnn nnnnnn 16

<210> 24

<211> 17

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<222> (7)..(17)

<223> any nucleotide

<400> 24
ggcggannnn nnnnnnn 17

<210> 25

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<222> (7)..(17)

<223> any nucleotide

<400> 25
cagctcnnnn nnnnnnn 17

<210> 26

<211> 15

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<222> (8)..(15)

<223> any nucleotide

<400> 26
cacctgcnnn nnnnn 15

<210> 27

<211> 27

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<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> splinker oligonucleotide in Fig. 1A and Fig. 3A

<400> 27
gtacgagacg cgcttttgcg cgtctcg 27

<210> 28

<211> 33

<212> DNA

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<223> 1. anchor oligonucleotide in Fig. 1A and Fig. 3A

<220>

<221> misc_feature

<222> (19)..(19)

<223> biotinylated nucleotide

<400> 28
taccgccgaa gaggcgtttt cgcctcttcg gcg 33

<210> 29

<211> 60

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> sequence appears in Fig. 1B, Fig. 1C, Fig. 1D and Fig. 3B

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<221> misc_feature

<223> 5'-end and 3'-end are ligated

<220>

<221> misc_feature

<222> (29)..(29)

<223> biotinylated nucleotide

<400> 29
gcgcgtctcg taccgccgaa gaggcgtttt cgcctcttcg gcggtacgag acgcgctttt 60

<210> 30

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> left sequence in Fig. 1E

<400> 30
gcggtacgag acgcgctttt gcgcgtctcg tac 33

<210> 31

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> right sequence in Fig. 1E, Fig. 3C and Fig. 3E

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<221> misc_feature

<222> (16)..(16)

<223> biotinylated nucleotide

<400> 31
cgccgaagag gcgttttcgc ctcttcg 27

<210> 32

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> left sequence in Fig. 1F and Fig. 3E

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<221> misc_feature

<222> (19)..(19)

<223> biotinylated nucleotide

<400> 32
cgctatcgaa gaggcgtttt cgcctcttcg ata 33

<210> 33

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> splinker oligonucleotide in Fig. 2A and Fig. 4A

<400> 33
cgagacgcgc ttttgcgcgt ctcgt 25

<210> 34

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> 1. anchor nucleotide in Fig. 2A and Fig. 4A

<220>

<221> misc_feature

<222> (21)..(21)

<223> biotinylated nucleotide

<400> 34
ccgtcatacg gatacgcgtt ttcgcgtatc cgtatgacgg a 41

<210> 35

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> sequence appears in Fig. 2B, Fig. 2C, Fig. 2D and Fig. 4B

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<221> misc_feature

<222> (32)..(32)

<223> biotinylated nucleotide

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<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 35
gcgcgtctcg tccgtcatac ggatacgcgt tttcgcgtat ccgtatgacg gacgagacgc 60

gctttt 66

<210> 36

<211> 33

<212> DNA

<213> Artificial Sequence

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<221> misc_feature

<223> left sequence in Fig. 2E, Fig. 2F, Fig. 4C, Fig. 4D and Fig. 4E

<400> 36
cggacgagac gcgcttttgc gcgtctcgtc cgt 33

<210> 37

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> right sequence in Fig. 2E, Fig. 4C and Fig. 4D

<220>

<221> misc_feature

<222> (17)..(17)

<223> biotinylated nucleotide

<400> 37
catacggata cgcgttttcg cgtatccgta tga 33

<210> 38

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> 2. anchor oligonucleotide in Fig. 2F and Fig. 4E

<220>

<221> misc_feature

<222> (21)..(21)

<223> biotinylated nucleotide

<400> 38
tactcatacg gatacgcgtt ttcgcgtatc cgtatgagta a 41

<210> 39

<211> 96

<212> DNA

<213> Artificial Sequence

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<221> misc_feature

<223> sequence appears in Fig. 5A (left of text "Elongation product #1"

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<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

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<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 39
gcgcgtctcg tacgcgacgc gtcgtaagcc gtcccgaaga ggcgttttcg cctcttcggg 60

acggcttacg acgcgtcgcg tacgagacgc gctttt 96

<210> 40

<211> 96

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> sequence appears in Fig. 5A (left of text "Elongation product #2"
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<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 40
gcgcgtctcg gtccggccta cgctagatcg atgccgaaga ggcgttttcg cctcttcggc 60

atcgaactag cgtaggccgg accgagacgc gctttt 96

<210> 41

<211> 69

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> sequence appears in Fig. 5B (left of text "Cut elongation produc
t #1 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left
sequence left of text "Transition #1")

<400> 41
ggacggctta cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60

cgtaagccg 69

<210> 42

<211> 69

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> sequence appears in Fig. 5B (left of text "cut elongation product
#2 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left s
equence left of text "Transition #2")

<400> 42
gcatcgaact agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60

ctagatcga 69

<210> 43

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 5C (right sequence left of text "Transit ion #1")

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<221> misc_feature

<222> (16)..(16)

<223> biotinylated nucleotide

<400> 43
tcccgagacc gcgttttcgc ggtctcg 27

<210> 44

<211> 27

<212> DNA

<213> Artificial Sequence

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<220>

<221> misc_feature

<223> Sequence appears in Fig. 5C (right sequence left of text "Transit ion #2")

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<221> misc_feature

<222> (16)..(16)

<223> biotinylated nucleotide

<400> 44
tgccgagacc gcgttttcgc ggtctcg 27

<210> 45

<211> 96

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F and Fig. 5G (in eac h case left of text "Elongation block #1")

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<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 45
gcgcgtctcg tacgcgacgc gtcgtaagcc gtcccgagac cgcgttttcg cggtctcggg 60

acggcttacg acgcgtcgcg tacgagacgc gctttt 96

<210> 46

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F, Fig. 7A (in each c
ase left of text "Elongation block #2") and in Fig. 5H (right of
text "Elongation block #2")

<220>

<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 46
gcgcgtctcg gtccggccta cgctagatcg atgccgagac cgcgttttcg cggtctcggc 60

atcgaactag cgtaggccgg accgagacgc gctttt 96

<210> 47

<211> 68

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 5G (left of text "Eco31I cut Elongation block"), Fig. 5I (above text "Cut elongation block 1"), Fig. 7B a nd Fig. 7C (in each case left of text "Cut elongation block #1")

<400> 47
ggacggctta cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60

cgtaagcc 68

<210> 48

<211> 68

<212> DNA

<213> Artificial Sequence

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<220>

<221> misc_feature

<223> sequence appears in Fig. 5H (right of text "Elongated transition anchor"), Fig. 5I (right of text "Cut elongation block 1"), Fig. 7B (left of text "Cut elongation block #2) and Fig. 7D (left of t ext Cut elongation block #2")

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<221> misc_feature

<222> (37)..(37)

<223> biotinylated nucleotide

<400> 48
gtccggccta cgctagatcg atgccgagac cgcgttttcg cggtctcggc atcgaactag 60

cgtaggcc 68

<210> 49

<211> 136

<212> DNA

<213> Artificial Sequence

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<223> sequence appears in Fig. 5J

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<221> misc_feature

<222> (67)..(67)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

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gcgcgtctcg tacgcgacgc gtcgtaagcc gtccggccta cgctagatcg atgccgagac 60

cgcgttttcg cggtctcggc atcgaactag cgtaggccgg acggcttacg acgcgtcgcg 120

tacgagacgc gctttt 136

<210> 50

<211> 106

<212> DNA

<213> Artificial Sequence

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<220>

<221> misc_feature

<223> sequence appears in Fig. 6A (left of text "Elongation produce #1"
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<221> misc_feature

<222> (52)..(52)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

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gcgcgtctcg tacgcgacgc gtcgataagc cgtctcatac ggatacgcgt tttcgcgtat 60

ccgtatgaga cggcttatcg acgcgtcgcg tacgagacgc gctttt 106

<210> 51

<211> 106

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 6A (left of text "Elongation product #2)

<220>

<221> misc_feature

<222> (52)..(52)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 51
gcgcgtctcg gtccggccta cgctgagatc gatgccatac ggatacgcgt tttcgcgtat 60

ccgtatggca tcgaactcag cgtaggccgg accgagacgc gctttt 106

<210> 52

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 6B (left of text "Cut elongation product #1 with 3 nucleotide overhang at 5' end") and Fig. 6C (left sequence left of text "Transition #1")

<400> 52
gacggcttat cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60

cgataagccg tct 73

<210> 53

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 6C (left sequence left of text "Transition #1")

<220>

<221> misc_feature

<222> (13)..(13)

<223> biotinylated nucleotide

<400> 53
cgagaccgcg ttttcgcggt ctcga 25

<210> 54

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 6B (left of text "Cut elongation product #2 with 3 nucleotide overhang at 5' end") and in Fig. C (left of text "Transition #2)

<400> 54
catcgaactc agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60

ctgagatcga tgc 73

<210> 55

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 6C (right sequence left of text "Transit ion #2")

<220>

<221> misc_feature

<222> (13)..(13)

<223> biotinylated nucleotide

<400> 55
cgagaccgcg ttttcgcggt ctcgg 25

<210> 56

<211> 98

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 6D (left of text "Elongation block #1")

<220>

<221> misc_feature

<222> (48)..(48)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 56
gcgcgtctcg tacgcgacgc gtcgataagc cgtctcgaga ccgcgttttc gcggtctcga 60

gacggcttat cgacgcgtcg cgtacgagac gcgctttt 98

<210> 57
<211> 98
<212> DNA
<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules
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<221> misc_feature
<223> sequence appears in Fig. 6D (left of text "Elongation block #2")

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<221> misc_feature
<222> (48)..(48)
<223> biotinylated nucleotide

<220>
<221> misc_feature
<223> 5'-end and 3'-end are ligated

<400> 57
gcgcgtctcg gtccggccta cgctgagatc gatgccgaga ccgcgttttc gcggtctcgg 60
catcgaactc agcgtaggcc ggaccgagac gcgctttt 98

<210> 58
<211> 96
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 7A (left of text "Elongation block #1")

<220>

<221> misc_feature

<222> (47)..(47)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 58
cgccgtctcg ggacggctta cgacgcgtcg cgtacgagac ccgcttttgc gggtctggta 60

cgcgacgcgt cgtaagccgt cccgagccgg cgtttt 96

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<222> (1)..(4)

<223> single-stranded overhang, not complemented by complementary strand

<220>

<221> misc_feature

<222> (5)..(20)

<223> double-stranded nucleid acid, complemented by SEQ ID No. 48. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (GCAT)

<400> 59
ggacggctta cgacgcgtcg 20

<210> 60

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<222> (1)..(4)

<223> single-stranded overhang, not complemented by complementary strand

<220>

<221> misc_feature

<222> (1)..(4)

<223> double-stranded nucleid acid, complemented by SEQ ID No. 47. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (CAGG)

<400> 60
tacgcgacgc gtcgtaagcc 20

<210> 61

<211> 108

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> sequence appears in Fig. 7D (right of text "Complementary overhang for subsequent transposition step")

<220>

<221> misc_feature

<222> (57)..(57)

<223> biotinylated nucleotide

<220>

<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 61
tacgcgacgc gtcgtaagcc gtccggccta cgctagatcg atgccgagac cgcgttttcg 60

cggtctcggc atcgaactag cgtaggccgg acggcttacg acgcgtcg 108